U.S. ENVIRONMENTAL PROTECTION AGENCY

TECHNICAL ENFORCEMENT SUPPORT
AT
HAZARDOUS WASTE SITES

CONTRACT NO. 68-W9-0007
TES X

Metcalf & Eddy, Inc.

ENVIRONMENTAL PROTECTION AGENCY
TECHNICAL ENFORCEMENT SUPPORT
AT
HAZARDOUS WASTE SITES

TES X

CONTRACT NO. 68-W9-0007
WORK ASSIGNMENT NO. R07066

FINAL

COMPLIANCE EVALUATION INSPECTION AND CLOSURE SAMPLING INSPECTION REPORT

FOR

BIG WOODS AUTO
3305 BIG WOODS ROAD
CEDAR FALLS, IOWA
EPA ID. NO. IAD981711948

SITE CONTACT:

Mel Cunningham
Owner
P.O.Box 981
Cedar Falls, Iowa 50613
(319) 277-4324

Inspected: November 4-5, 1992

PERFORMED BY:

Jim Aycock

METCALF & EDDY, INC.
10502 NW AMBASSADOR DRIVE, SUITE 210
KANSAS CITY, MISSOURI 64153
PROJECT NO. 173066

January 4, 1993

TABLE OF CONTENTS

LIST OF ATTACHMENTS

1.0 INTRODUCTION

On November 4 and 5, 1992, a Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) and Closure Sampling Inspection (CSI) were performed by Metcalf & Eddy (M&E) at the Big Woods Auto (BWA) located at 3305 Big Woods Road in Cedar Falls, Iowa. The inspection was conducted under the Technical Enforcement Support (TES) X Contract No. 68-W9-0007, Work Assignment R07066, for the U.S. Environmental Protection Agency (EPA), Region VII. This inspection was conducted under the authority of Section 3007 of RCRA, as amended. This narrative report and attachments present the results of the inspections.

This report contains a discussion of the facility's RCRA background, a summary of the facility's reported waste management practices and observations made during the inspections. The inspection report is supplemented by documentation which supports the observations made and findings of the CEI and CSI. The documentation items include: Inspector's Credentials, RCRA Inspection Confidentiality Forms, Receipt for Documents, supporting documentation, photographs and checklists. These items are referenced in the report as Attachments 1 through 9.

2.0 PARTICIPANTS

Big Woods Auto
Mel Cunningham, Owner
Ron Coffman, Operations Officer for Coffman's Body Shop
Ron Arends, Registered Professional Engineer

Dick's Petroleum Company
Wendall Kuethe, Driller/Sales
Larry Kammeyer, Driller

Metcalf & Eddy
Jim Aycock, Environmental Scientist

3.0 INSPECTION PROCEDURES

Upon arrival at the facility, I contacted Mr. Mel Cunningham, Operations Officer. I presented Mr. Cunningham with my credentials (Attachment 1) and explained the purpose, procedures and the authority under which the inspections would be conducted. Mr. Cunningham was notified that I would be performing both a brief (limited scope) CEI and CSI at the same time. I also informed Mr. Cunningham that the CSI would consist of acquisition of EPA split samples from all locations that BWA consultant (Ron Arends) was sampling and documentation that BWA was following the approved closure plan. I then presented the RCRA Inspection Confidentiality Forms and explained that BWA could declare any information collected during the inspection as confidential business information.

At the request of the EPA, the CEI inspection consisted of a one-hour facility tour to identify areas of concern such as leaking drums or other areas of hazardous waste management. In addition, on-site facility records were not reviewed for this inspection at the request of the EPA.

The CSI consisted of observing and documenting sample collection and decontamination procedures identified in the BWA approved closure plan and acquiring split and non-split samples from the closure area. The EPA requested that M&E acquire three samples from the 0 to 6-inch interval, five samples from the 6 to 12-inch interval, and two split samples from the 12 to 18-inch soil interval.

At the conclusion of the inspection, I held an exit briefing with Mr. Cunningham. During the exit briefing, I reviewed my findings with Mr. Cunningham. Mr. Cunningham also acknowledged receipt of the RCRA Inspection Confidentiality Notice form with his signature (Attachment 2). Mr. Cunningham declined to

declare any confidentiality claims concerning the information collected during the inspection. I then presented Mr. Cunningham with a Receipt for Documents form which he signed as acknowledgement of receipt (Attachment 3).

4.0 FACILITY DESCRIPTION

BWA is a licensed auto salvage yard that began operations in 1971. BWA is situated on approximately 12 acres of which four acres is zoned for agriculture use and eight acres is zoned for heavy industrial use. BWA is located in a rural area of Cedar Falls. The soil on the BWA site is a light sandy loam soil that is covered with indigenous native grasses. The BWA site also has some native and introduced tree species scattered around the facility mainly on the north and east sides. A site map is included in this report as Attachment 4.

In February 1987, BWA was cited by the EPA for operating a hazardous waste container storage area without a permit or having achieved interim status. In December 1988, the EPA issued a Consent Agreement and Consent Order, Docket No. VII-88-H-0013 to the facility. BWA submitted a closure plan for the container storage area in February 1989. The EPA approved the closure plan with modifications on June 18, 1992.

The facility's closure plan describes the procedures to be followed to close the hazardous waste container storage area. Implementation of the closure plan is to result in "clean closure", i.e. demonstrate that no release has occurred or take appropriate action to mitigate any release. Closure activities are to include the collection and analysis of soil samples.

The hazardous constituents for which target cleanup levels have been established by EPA include toluene and xylene. The target cleanup level for toluene and xylene is 100 mg/kg and 1,000 mg/kg, respectively. If the concentration of toluene and xylene in the soil samples is in excess if the target cleanup levels, then the facility will be required to expand their investigation to determine the vertical and horizontal extent of soil contamination.

The hazardous waste container storage area is approximately 38 feet by 35 feet and is located about 200 feet east of the metal building. The closure plan specifies soil samples are to be collected at five locations depicted in the sketch on the aerial photograph in Attachment 4. The five locations are designated BW-1, BW-2, BW-3, BW-4 and BW-5. These locations were selected by EPA because drums of hazardous waste had been observed in these exact locations by an EPA inspector during a February 1987 CEI.

The closure plan specifies collection of soil samples is to be accomplished "using a hand auger and split spoon sampler, or other boring and sampling devices". To prevent cross-contamination, disposable latex gloves are to be worn while sampling and changed between the collection of each sample. The facility is to collect soil samples from the 0 to 6, 6 to 12 and 12 to 18-inch intervals below ground level at the five designated sample locations. Discrete soil samples are to be collected from each interval with no homogenization. The facility is required to containerize only the 12 to 18-inch sample in 4-ounce glass jars with Teflon-lined lids for laboratory analysis. The closure plan indicates the EPA may collect soil samples from each interval at each sample location.

The closure plan also states that the auger cuttings from the soil sampling activities are to be collected, placed in containers and transferred to the temporary storage area identified by the facility. The auger cuttings are to be managed in accordance with the criteria presented in the section titled "Disposal of Generated Waste and Contaminated Soil" in the closure plan.

Equipment used in soil sample collection is to be steamed cleaned or hand washed with water and a non-foaming detergent and rinsed with distilled water prior to use and between the collection of each sample. The water generated from decontamination activities is to be collected and containerized. The containerized decontamination water is to be transferred to the hazardous waste storage unit identified

by the facility and handled in accordance with the criteria presented in the section titled "Disposal of Generated Waste and Contaminated Soil" in the closure plan.

4.1 Facility Operations

BWA is a licensed auto salvage/recycle yard. Mr. Cunningham uses the facility to rebuild collector automobiles and provide used auto parts and supplies to customers. BWA also provides leased storage space for automobiles that are owned by automobile collectors. Types of automobiles stored on site by auto collectors include Ford Mustangs, a 1954 Lincoln, a 1965 Chevrolet convertible and a 1960 Pontiac convertible.

4.2 Waste Streams

BWA does not generate hazardous wastes at the site.

5.0 FINDINGS AND OBSERVATIONS

This section summarizes the findings and observations made during the CEI and CSI. Section 5.1 discusses the CEI and Section 5.2 discusses the CSI. Note: Roll 1, Photographs 1 through 16 and Roll 2, Photographs 1 through 8 were taken at Coffman's Body Shop.

5.1 Compliance Evaluation Inspection

The following compliance evaluation information was collected during the facility tour and through an interview with Mr. Cunningham. A generator checklist was completed during the facility tour and is included in this report as Attachment 6. The CEI was conducted on November 5, 1992.

At the request of the EPA, the CEI consisted of a one hour tour of the facility to identify areas of concern, such as leaking drums or other areas of hazardous waste management. The EPA also requested that I take pictures of the following areas: 1) the transformer storage area; 2) lead acid battery storage area; and 3) the empty drum storage area.

The first area I observed was the area outside the automobile restoration building located near the southwest corner of the facility. I observed one 55-gallon metal drum near the northeast corner of the building that was labeled with the words "Hazardous Waste" (Attachment 6, Roll 1, Photo 28; Roll 3, Photos 20 and 21). The drum contained approximately five gallons of decontamination fluids generated from decontaminating soil sampling equipment during soil sampling on November 4, 1992. I observed the drum was closed and had a start date of accumulation on the label.

The next area I inspected was the metal building located north of the automobile restoration building. Mr. Cunningham stated he uses the building to store wood, i.e. dimension lumber, a tractor, tires, wheels, and miscellaneous auto parts. I observed those items stored in the building.

The next area I inspected was the lead acid battery storage area located to the east of the metal building. I observed three small stacks of corrugated steel in the area Mr. Cunningham identified as the lead acid battery storage area (Attachment 6, Roll 3, Photos 2 through 4). I did not observe any lead acid batteries stored in this area at the time of the inspection.

The next area I inspected was the trailers located immediately to the north and east of the lead acid battery storage area. I observed in the east trailer numerous auto parts, chairs, doors and fluorescent lights. In the north trailer, I observed miscellaneous car parts such as plastic molding and dash boards. Mr. Cunningham stated that the parts are from Big Woods Auto.

The next area I inspected was the former empty barrel storage area located to the north of the metal building. I observed that all the barrels had been removed (Attachment 6, Roll 3, Photos 5 through 7). Mr. Cunningham stated that he had crushed the barrels and then gave the barrels to a local person about five or six months ago. Mr. Cunningham further stated that the person had sold the barrels as scrap metal to Weissman Iron and Metal Recycling, Waterloo, Iowa.

I then inspected the rest of the facility and observed several electrical transformers, control buildings, parts and lights located southeast of the former hazardous waste storage area (Attachment 6, Roll 3, Photos 10 through 19). The transformers and control buildings appeared to be empty. The lights appeared to be vapor and halogen outdoor lights. At least one of the vapor lights had been broken (Attachment 6, Roll 3, Photo 13). It appeared that the halogen lights were intact and had not been broken.

5.2 Closure Sampling Inspection

Soil samples were collected by the facility using a 24-inch stainless steel split-spoon sampler driven by a SIMCO drill rig. The facility collected soil samples from the 0 to 6-inch, 6 to 12-inch, and 12 to 18-inch soil intervals. The samples were not homogenized and only the 12 to 18-inch interval samples were placed by the facility in four-ounce glass containers with Teflon-lined closures for laboratory analysis.

The split-spoon sampler was steam-cleaned before and in between each sample location. All decontamination fluids were collected in a five gallon container. After the soil sampling was completed and all decontamination procedures were completed, the decontamination fluids were transferred to a 55-gallon metal drum, securely closed and labeled with the words "Hazardous Waste", words that identified the drum contents, and a start date of accumulation (Attachment 6, Roll 1, Photo 28; Roll 3, Photos 20 and 21). Any remaining soil sample material was placed back in the borehole with EPA approval. There were no auger cuttings generated during the soil sampling since the split-spoon sampler was driven/pushed into the soil.

At approximately 1500 hours, the drillers from Dick's Petroleum Company arrived on site and began mobilizing their equipment. Mr. Ron Arends, Registered Professional Engineer, and Mr. Ron Coffman, Operations Officer for Coffman's Body Shop, also arrived on site at approximately 1500 hours to oversee the closure and drilling operations and to collect soil samples.

Messrs. Wendall Kuethe, Driller/Sales, and Larry Kammeyer, Driller, began setting up the drill rig at sample location BW-1 (Attachment 6, Roll 1, Photo 18). After setting up the drill rig over location BW-1, Mr. Kuethe steam-cleaned the split-spoon sampler and connected it to the drill rods. Mr. Kammeyer operated the drill rig while Mr. Kuethe directed the split-spoon sampler into the soil (Attachment 6, Roll 1, Photo 19). After the soil sample was obtained, Mr. Kuethe opened the split-spoon and Mr. Arends collected the samples directly from the split-spoon sampler.

Mr. Arends placed the sample in a four-ounce glass jar using a stainless steel knife from the 12 to 18-inch interval. I also obtained samples from location BW-1 at the 0 to 6-inch, 6 to 12-inch and 12 to 18-inch intervals. All EPA samples were placed in 40-ml glass vials, labeled and packed in an ice chest for transportation to the EPA Region VII Laboratory.

After the soil sample collection was completed at BW-1, Mr. Kuethe steam cleaned the split-spoon sampler and prepared to collect the next soil sample.

The next area sampled was location BW-3. Using the same procedures as described above, Mr. Arends collected a soil sample from the 12 to 18-inch soil interval. I obtained samples from the 0 to 6-inch, 6 to 12-inch and 12 to 18-inch soil intervals.

The next area sampled was location BW-2. Again, using the same procedures as described above, Mr. Arends collected a soil sample from the 12 to 18-inch interval. I obtained samples from the 0 to 6 and 6 to 12-inch intervals.

The next area sampled was location BW-4. Using the same procedures as described above, Mr. Arends collected a soil sample from the 12 to 18-inch interval. I obtained a sample from the 6 to 12-inch interval.

The last area sampled was location BW-5. Using the same procedures as described above, Mr. Arends collected a sample from the 12 to 18-inch interval. I obtained a sample from the 6 to 12-inch interval.

Copies of the field sheets and chain of custody forms are included in this report as Attachment 7.

6.0 SUMMARY

The facility appeared to follow the approved closure plan without any deviations. The facility collected soil samples from each location listed in their closure plan and delivered the samples to a laboratory for analysis on November 4, 1992.

However, I observed the drillers did not contain all of the decontamination fluids generated. I observed them steam cleaning the split-spoon sampler over a five-gallon bucket and, at times, the decontamination fluids were not collected in the bucket. After reviewing the split sample analyses, it appears that all split samples were below target cleanup levels. Sample analysis information regarding BWA's samples was not available at the time this report was written, therefore, no comparison between the EPA split sample results and sample results was made. The split sample results are included in this report as Attachment 8. A table summarizing the split sample analyses is included in this report as Attachment 9.

During the CEI, I did not observe any leaking drums or any other hazardous waste management areas except for the storage area for the decontamination fluids located at the northeast corner of the wooden building.

Photographs of the areas used for the storage of electrical transformers, control buildings, outdoor lights, miscellaneous electrical parts, lead acid batteries and empty drums were obtained. I did not observe any signs of spills, leaks or soil contamination in those areas. There was one broken outdoor vapor light in the area where the transformers are stored.

ATTACHMENT 1

INSPECTOR'S CREDENTIALS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

RCRA COMPLIANCE EVALUATION INSPECTION AND CLOSURE SAMPLING OVERSIGHT INSPECTION
CREDENTIALS AND DESIGNATION

To Whom It May Concern:

This certifies that Jim Aycock, whose signature appears below, is designated an authorized contractor of the U. S. Environmental Protection Agency (EPA) for the purpose of conducting a Resource Conservation and Recovery Act (RCRA) Compliance Evaluation Inspection (CEI) and Closure Sampling Oversight Inspection at Big Woods Auto, Cedar Falls, Iowa for the period October 1, 1992 through December 31, 1992. This person is hereby authorized to conduct these official inspections pursuant to Section 3007 of RCRA.

At the end of the CEI, your facility may be presented with a Notice of Preliminary Findings (Notice). The Notice is only a recommendation which is given to the EPA for consideration. EPA will further review the Notice along with the inspection report and other documentation contained in our files to determine what violations may have occurred at your facility.

The Notice is provided to call your attention to possible areas of noncompliance at the earliest time. We recommend that you respond to the Notice regarding any dispute you may have with it or describing the corrective actions which you have taken in response to the Notice. Corrective actions taken by your facility will be considered in subsequent enforcement follow-up.

Section 3007(b) of RCRA and Title 40 Code of Federal Regulations (CFR) Part 2, define the Agency's policies regarding protection of trade secrets and confidential information.

If you have any questions, please contact the Region VII EPA, RCRA/IOWA Section, at (913) 551-7058.

Jim Aycock 11-3-92

Jim Aycock Date
Designated Contractor
Metcalf & Eddy, Inc.

James V. Callier 11/2/92

James V. Callier Date
Chief, IOWA Section
RCRA Branch
Waste Management Division
U. S. Environmental Protection
Agency, Region 7

ATTACHMENT 2

CONFIDENTIAL BUSINESS INFORMATION FORMS

U.S. ENVIRONMENTAL PROTECTION AGENCY
RCRA INSPECTION
CONFIDENTIALITY NOTICE

Name and Address of Inspector(s)	Name and Address of Facility	
James Aycock Metcalf & EDDY, Inc. 10502 N.W. AMBASSADOR Dr. suite 210 Kansas city, missouri 64153 U.S. EPA, Region VII ENSV Division 25 Funston Road Kansas City, Kansas 66115	Big woods Auto 3305 Big woods Road Cedar Falls, Iowa 50613 Owner, Operator, or Agent in Charge Mel Cunningham Title Owner Address SUNRISE TERRACE R.R 2 WAVERLY IA 50677	
Name of Individual to Whom Notice Given Mel Cunningham	Title owner	Date 11-5-92

It is possible that EPA will receive public requests for release of the information obtained during inspection of the facility above. Such requests will be handled by EPA in accordance with provisions of the Freedom of Information Act (FDIA), 5 U.S.C. 552; EPA regulations issued thereunder, 40 CFR Part 2; and the Resource Conservation and Recovery Act, Section 3007, as amended. EPA is required to make inspection data available in response to FOIA requests, unless the Administrator of the Agency determines that the data contains information entitled to confidential treatment.

Any or all of the information collected by EPA during the inspection may be claimed confidential, if it relates to trade secrets or commercial of financial matters that you consider to be confidential. If you make claims of confidentiality, EPA will disclose the information only to the extent, and by the means of the procedures set forth in the regulations (cited above) governing EPA's treatment of confidential information. Among other things, the regulations require that the EPA notify you in advance of publicly disclosing any information you have claimed and certified confidential.

To claim information confidential, you must certify that each claimed item meets all of the following criteria:

1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures.

2. The information is not, and has not been, reasonably obtainable without your company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on a showing of special need in a judicial or quasi-judicial proceeding).

3. The information is not publicly available elsewhere.

4. Disclosure of the information would cause substantial harm to your company's competitive position.

At the completion of the inspection, you will be given a receipt for all documents, samples, and other materials collected. At that time you may make claims that some or all of the information is confidential and meets the four criteria listed above.

RCRA INSPECTION CONFIDENTIALITY NOTICE	Facility Big woods auto

If you are not authorized by your company to make confidentiality claims, this notice will be sent by certified mail, along with the receipt for documents, samples, and other materials, to the Owner, Operator, or Agent in Charge of your firm, within two days of this date. That person must return a statement, specifying any information which should receive confidential treatment.

This statement from the Owner, Operator, or Agent in Charge should be addressed to:

Mr. David A. Wagoner
Director, Waste Management Division
United States Environmental Protection Agency
726 Minnesota Avenue
Kansas City, Kansas 66101

and mailed by registered, return-receipt requested mail with in seven (7) calendar days of receipt of this Notice.

Failure by your firm to submit a written request that information be treated as confidential, either at the completion of the inspection or by the Owner, Operator, or Agent in charge, within the seven-day period, will be treated by the EPA as a waiver by your company of any claims for confidentiality regarding the inspection data.

To be completed by the facility official receiving this Notice:

I have received and read this Notice.

Name MELVIN D. CUNNINGHAM

Title OWNER

Signature Melvin D. Cunningham

Date 5 NOV. 92

If there is no one on the premises of the facility who is authorized to make business confidentiality claims for the firm, a copy of this Notice and other inspection materials will be sent to the Owner, Operator, or Agent in charge of the company. If there is another company official who should also receive this information, please designate below:

Name _____

Title _____

Address _____

_____

U.S. ENVIRONMENTAL PROTECTION AGENCY
726 MINNESOTA AVENUE
KANSAS CITY, KANSAS 66101

REQUEST FOR CONFIDENTIAL TREATMENT

Name of Individual	Title	Date
Mel Cunningham	owner	11-5-92
Firm Name	**Firm Address**	
Big Woods Auto	3305 Big Woods Road Cedar Falls, Iowa 50613	

Information for which Confidential Treatment is requested:

NONE AT THIS TIME

Acknowledgement of Claimant

The undersigned requests that confidential treatment of the information described be provided in accordance with provisions of the Freedom of Information Act (FOIA), 5U.S.C.552; EPA regulations issued thereunder, 40 CFR Part 2; and the Resource Conservation and Recovery Act (RCRA), Section 3007, as amended. The undersigned further acknowledges that he/she is authorized to make such claims for his/her firm.

The undersigned also certifies that each item described above meets all of the following criteria: (1) The company has taken measures to protect the confidentiality of the information, and it intends to continue to take such measures: (2) The information is not, and has not been, reasonably attainable without the company's consent by other persons (other than governmental bodies) by use of legitimate means (other than discovery based on a showing of special need in a judicial of quasi-judicial proceeding; (3) The information is not publicly available elsewhere; and (4) Disclosure of the information would cause substantial harm to the company's competitive position.

Signature (Owner, Operator, or Agent)	Title
Melvin D. Cunningham	OWNER
Name of Inspector **Title**	**Inspector's Signature**
James Aycock Env. Scientist	James Aycock

ATTACHMENT 3

RECEIPT FOR DOCUMENTS

U.S. ENVIRONMENTAL PROTECTION AGENCY

RECEIPT FOR SAMPLES AND DOCUMENTS

Inspector(s) Name and Address	Firm Name and Address
James Aycock Metcalf & Eddy, Inc. 10502 N.W. Ambassador Dr. Suite 210 Kansas City, Missouri. 64153 U.S. EPA, Region VII ENSV Division 25 Funston Road Kansas City, Kansas 66115	Big Woods Auto 3305 Big Woods Road Cedar Falls, Iowa 50613 Name of Individual Mel Cunningham Title Owner
Date Collected: 11-4-92	Samples were: ( ) Purchased
	(✓) Received no charge ( ) Borrowed
Sample Numbers: ADF 16 001-010	Amount paid for Samples: ~~0~~
Duplicate Samples Requested: ( ) Yes (✓) No	Method of Payment: ( ) Cash ( ) Voucher ( ) To be Billed

The documents and samples of chemical substances and/or mixtures described below were collected in connection with the administration and enforcement of the Resource Conservation and Recovery Act.

Receipt for the document(s) and/or Sample(s) described below is hereby acknowledged:

Split Soil Samples ADF 16 001 through 010 20 - 40 ml vials

Signature (Owner, Operator, or Agent)	Title
Melvin D. Cunningham	OWNER
Name of Inspector / **Title**	**Inspector's Signature**
James Aycock / Env. Scientist	James Aycock

OWNER

ATTACHMENT 4

SITE MAPS

SITE MAP	
BIG WOODS AUTO	
Source: Big Woods Auto and Coffman Body Shop Closure Plan, 1989	
M&E Metcalf & Eddy	METCALF & EDDY, INC.

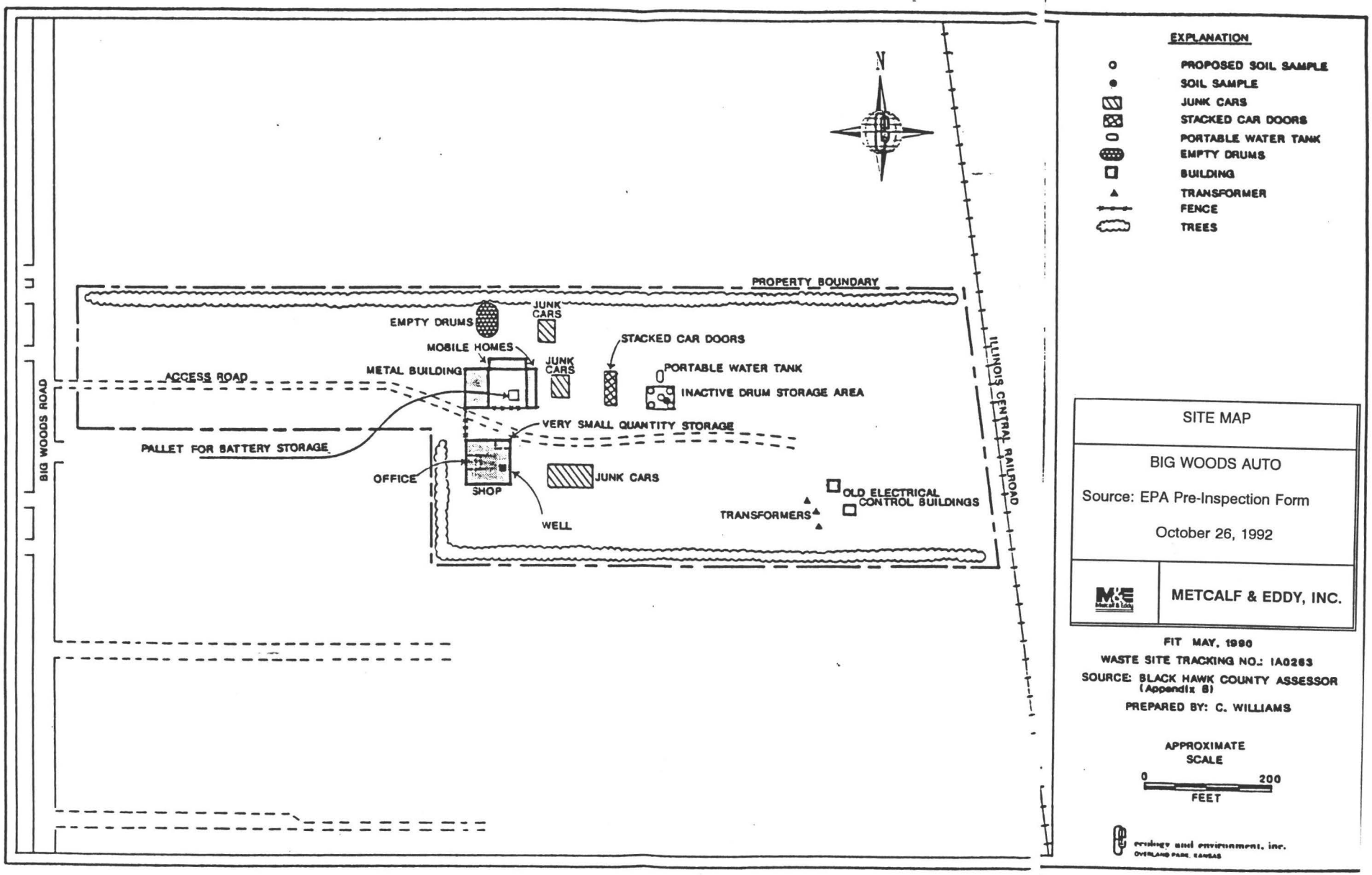


FIGURE 2-1: SITE SKETCH MAP

ATTACHMENT 5

GENERATOR'S CHECKLIST

Generators - General:
(Part 262 Subpart A)

	Yes	No	Comments
Has the generator of solid wastes made a hazardous waste (H.W.) determination by determining if the waste is: 262.11-			
(a) Excluded from regulation under 261.4?	✓		
(b) Listed as a H.W. in 261 Subpart D?	✓		
(c) Exhibits a characteristic identified in 261 Subpart C by either:			
(1) Testing the waste?	✓		
(2) Applying knowledge of the hazard characteristic of the waste in light of the materials or the processes used?	✓		
(d) Excluded or restricted under 264, 265, or 268, if determined hazardous?	✓		
Is the waste an exempt recyclable material: 261.6(a)(3)-			
(i) Industrial ethyl alcohol that is reclaimed (unless provided otherwise in an international agreement)?	N/A		
(ii) Used batteries or cells returned to the manufacturer for regeneration?	✓		
(iii) Used oil not burned for energy recovery?	✓		
(iv) Scrap metal?	✓		
(v-ix) Specific steel (K087) and petroleum refinery production wastes?	N/A		
If the waste is any of the following recyclable materials, complete Parts 270 (permits and notifications), and 266 Subparts A-G of the TSD checklists: 261.6(a)(2)-	N/A		
(i) Those used in a manner constituting disposal (Subpart C)?			
(ii) H.W.s burned for energy recovery in boilers and industrial furnaces not regulated as an incinerator (Subpart D)?			
(iii) H.W. characteristic used oil that is burned as above (Subpart E)?			
(iv) Those from which precious metals are reclaimed (Subpart F)?			
(v) Spent lead-acid batteries that are reclaimed (Subpart G)?			

Conditionally Exempt Small Quantity Generators
(Part 261)

	Yes	No	Comments
Does the facility qualify as a conditionally exempt small quantity generator each calendar month by:			
Generating less than 100 kgs and accumulating less than 1000 kgs of H.W. on site? 261.5(a),(g) or:	✓		Does not generate HW
Generating less than 1 kg of acute H.W., or 100 kgs of acute H.W. contaminated soil or spill residues? 261.5(e)(1-2)			
Did the quantity determination include all listed and characteristic wastes generated except: 261.5(d)-			
(1) H.W. removed from on-site storage?			
(2) H.W. produced by on-site treatment or reclamation of H.W. that was already counted once?			
(3) Spent materials that have already been counted once and that are reclaimed, reused, and subsequently generated on site? or:			
H.W. exempted from regulation? 261.5(c)			
Has the conditionally exempt small quantity generator treated or disposed of the H.W. in an on-site facility, or ensured delivery to an off-site U.S. TSD, either of which is: 261.5(f,g)(3)-			
(i) Permitted under Part 270?			
(ii) In interim status under 265 and 270?			
(iii) Authorized by an approved state under Part 271?			
(iv) Permitted, licensed, or registered by a state to manage municipal or industrial solid waste? or:			
(v) A facility which:			
(A) Legitimately uses, reuses, recycles, or reclaims the waste? or:			
(B) Treats its waste prior to use, reuse, recycling, or reclaiming?			

For any month that the generator did not meet these requirements, go to next page.

ATTACHMENT 6

PHOTOGRAPHS

ROLL 1 PHOTO 17

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** East
Direction: November 4, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1500
Subject: Entrance to facility.

ROLL 1 PHOTO 18

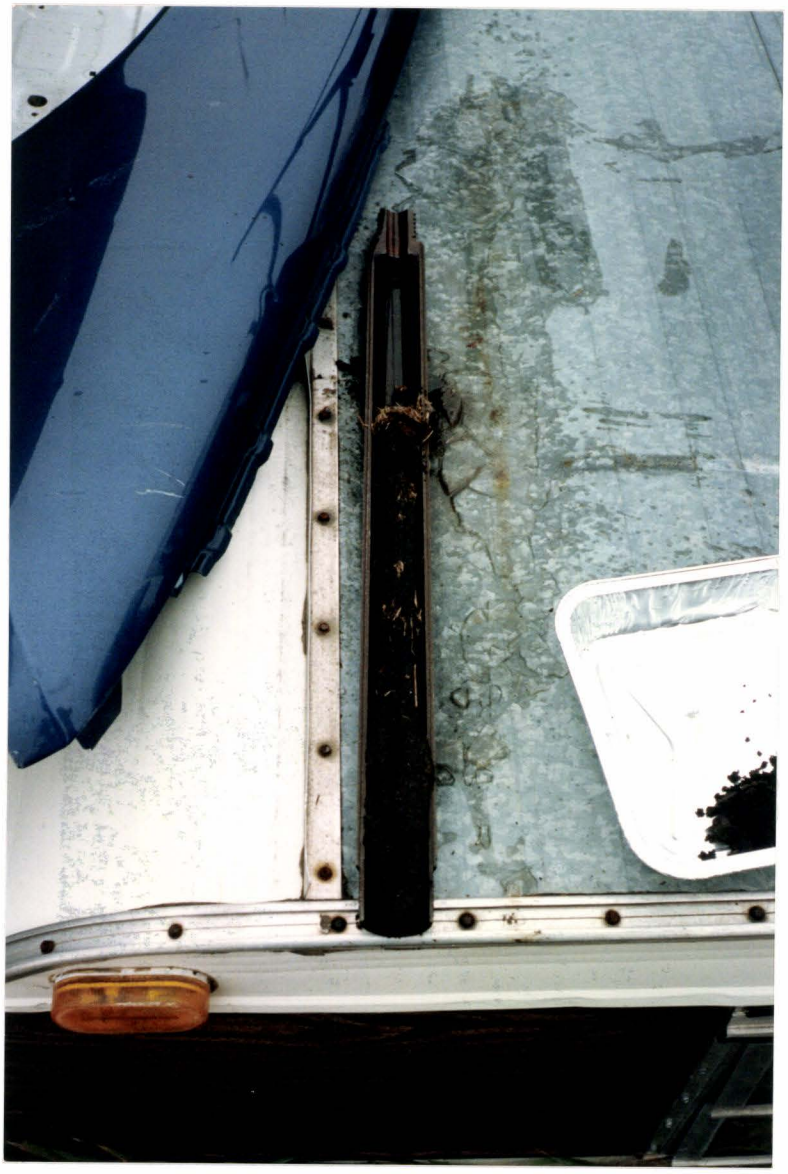
Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northwest
Direction: November 4, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1510
Subject: Closure area with drill rig setup over location BW-1. White stakes (center) indicate additional sample locations.

ROLL 1
PHOTO 19

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: Southwest
Time: 1510
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler being driven at location BW-1.

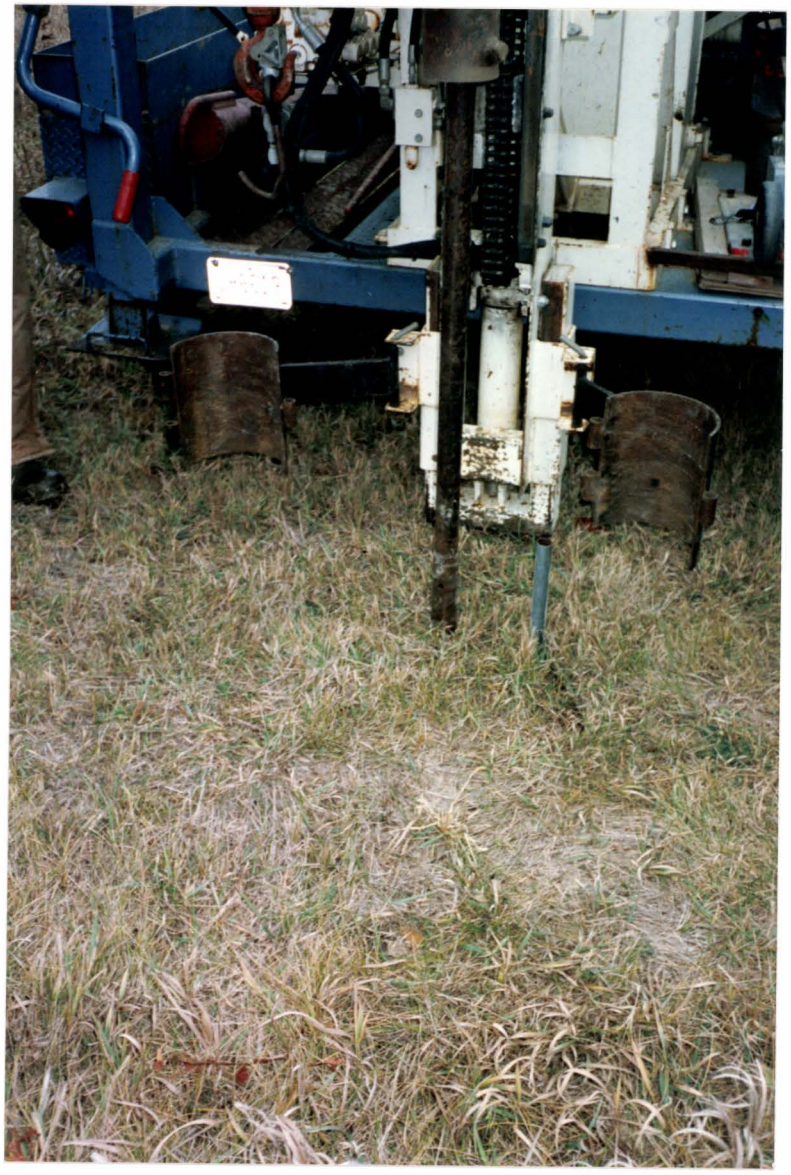
ROLL 1
PHOTO 20

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: West
Time: 1515
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler and soil collected from location BW-1.



ROLL 1
PHOTO 21

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: West
Time: 1535
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler and soil collected from location BW-3.



ROLL 1
PHOTO 22

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: Southeast
Time: 1550
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Drill rig setup at location BW-2.

ROLL 1
PHOTO 23

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: Southeast
Time: 1553
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler and soil collected from location BW-2.

ROLL 1
PHOTO 24

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: Southeast
Time: 1620
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Drill rig setup over location BW-5.

ROLL 1
PHOTO 25

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: West
Time: 1620
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler and soil collected from location BW-5 (not in focus).

ROLL 1
PHOTO 26

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: East
Time: 1625
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Mr. Kuethe (left) and Mr. Kammeyer (right) steam cleaning split-spoon sampler.

ROLL 1
PHOTO 27

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: West
Time: 1625
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Split-spoon sampler and soil collected from location BW-5.

ROLL 1
PHOTO 28

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 4, 1992
Date: Northeast
Time: 1655
Photographer: Jim Aycock
Witness: None
Camera Type: Nikon 35mm
Film Type: 200 ASA
Subject: Closed 55-gallon metal drum labeled "Hazardous Waste". Contents of the drum are decontamination fluids generated from equipment decontamination during the soil sampling.

ROLL 2 PHOTO 9

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northwest
Direction: November 5, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1005
Subject: Double exposure of the lead acid battery storage area.

ROLL 2 PHOTO 10

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** West
Direction: November 5, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1015
Subject: Former empty barrel storage area (area left of the car parts).

ROLL 2 PHOTO 11

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northwest
Direction: November 5, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1045
Subject: Empty electrical transformers located approximately 250 feet southeast of the closure area.

ROLL 2 PHOTO 12

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** South
Direction: November 5, 1992 **Camera Type:** Nikon 35mm **Film Type:** 200 ASA **Time:** 1045
Subject: Label on one of the electrical transformers.

ROLL 3 PHOTO 1

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** East
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1045
Subject: Entrance to the facility.

ROLL 3 PHOTO 2

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** East
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1055
Subject: Lead acid battery storage area.

ROLL 3 PHOTO 3

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1055
Subject: Lead acid battery storage area.

ROLL 3 PHOTO 4

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** South
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1055
Subject: Lead acid battery storage area.

ROLL 3 PHOTO 5

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** West
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1100
Subject: Former empty barrel storage area (between red car at left and car parts at right).

ROLL 3 PHOTO 6

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** North
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1105
Subject: Former empty barrel storage area (area at bottom left of photo).

ROLL 3 PHOTO 7

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** West
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1105
Subject: Closeup of area identified by Mr. Cunningham as the empty barrel storage area.

ROLL 3 PHOTO 8

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1110
Subject: Closure area (center) with soil sample locations marked with white stakes.

ROLL 3 PHOTO 9

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southwest
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1110
Subject: Soil sample location BW-4 in the closure area.

ROLL 3 PHOTO 10

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1110
Subject: View of electrical transformers (center), control buildings and scrap metal storage area.

ROLL 3 PHOTO 11

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1110
Subject: Three electrical transformers (background) and miscellaneous electrical components stored in the southeast portion of the facility.

ROLL 3 PHOTO 12

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northwest
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1112
Subject: Two natural gas "Air Temp" model 3504-00K air conditioning units stored northwest of the electrical transformers.

ROLL 3 PHOTO 13

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1115
Subject: Scrap electrical transformer parts and control boxes stored northwest of the transformers. Note the broken vapor light in the foreground.

ROLL 3 PHOTO 14

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1115
Subject: Scrap electrical transformer parts and lights stored northwest of the transformers.

ROLL 3 PHOTO 15

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1115
Subject: Label on scrap electrical transformer parts stored northwest of the transformers.

ROLL 3 PHOTO 16

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1115
Subject: Three electrical transformers. Gauges indicate transformers are empty.

ROLL 3 PHOTO 17

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Southeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1120
Subject: Closeup of label and gauge on one of the electrical transformers.

ROLL 3 PHOTO 18

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** East
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1120
Subject: Empty electrical control building (boxes) stored northeast of the transformers.

ROLL 3
PHOTO 19

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 5, 1992
Date: South
Time: 1120
Photographer: Jim Aycock
Witness: None
Camera Type: Minolta 35mm
Film Type: 200 ASA
Subject: View inside one of the electrical control buildings (boxes).

ROLL 3
PHOTO 20

Facility: Big Woods Auto
Location: Cedar Falls, IA
Direction: November 5, 1992
Date: Northeast
Time: 1130
Photographer: Jim Aycock
Witness: None
Camera Type: Minolta 35mm
Film Type: 200 ASA
Subject: Closed 55-gallon metal drum labeled "Hazardous Waste". Drum contains decontamination fluids generated from decontaminating equipment during the soil sampling activities.

ROLL 3 PHOTO 21

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** Northeast
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1130
Subject: Closeup of label on drum of decontamination fluids.

ROLL 3 PHOTO 22

Facility: Big Woods Auto
Location: Cedar Falls, IA **Photographer:** Jim Aycock **Witness:** None **Date:** East
Direction: November 5, 1992 **Camera Type:** Minolta 35mm **Film Type:** 200 ASA **Time:** 1215
Subject: Entrance to facility at time of exit.

ATTACHMENT 7

FIELD SHEETS AND CHAIN OF CUSTODY FORM

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 001 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: ___ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/97 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/97 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth location 1

Black soil

SAMPLE COLLECTED BY : Jim Ryst

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 002 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth location 1

Black soil

SAMPLE COLLECTED BY : Jim Ayers

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 003 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 12-18 inch depth location 1

dark Brown soil

SAMPLE COLLECTED BY : Jim Appel

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 004 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:~~15~~30 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:~~53~~35 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth location 3
Black soil

SAMPLE COLLECTED BY : Jason Reynolds

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 005 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:~~45~~ 30 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:~~53~~ 35 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth location 3

Black soil

SAMPLE COLLECTED BY : Jan Lynch

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 006 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __

LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT

LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:~~45~~ 30 EAST: ____

CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:~~55~~ 35 NORTH: ____

STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 12-18 inch depth location 3

Black soil

SAMPLE COLLECTED BY : Jim Asbach

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 007 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:45 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:53 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth location 2

Black soil

SAMPLE COLLECTED BY : Jim Asper

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 008 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:45 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:52 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth location 2
Black soil

SAMPLE COLLECTED BY : Jon Ayoch

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 009 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 16:07 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 16:08 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: ___ OPERABLE UNIT: ___

Collected from 6-12 inch depth location 4
Black soil

SAMPLE COLLECTED BY : Jim Asplah

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 010 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 16:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 16:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: ___ OPERABLE UNIT: ___

Collected from 6-12 inch depth Location: S
Black soil

SAMPLE COLLECTED BY : James Ryerson

7-10

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)	SHEET
Pat Frey	Big Wood Auto	04 / 11 / 92	1 of 1

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORMATION (condition of samples upon receipt, other sample numbers, etc.)
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
ADF 16-001	1				1		X				
ADF 16-002	1				1		X				
ADF 16-003	1				1		X				
ADF 16-004	1				1		X				
ADF 16-005	1				1		X				
ADF 16-006	1				1		X				
ADF 16-007	1				1		X				
ADF 16-008	1				1		X				
ADF 16-009	1				1		X				
ADF 16-010	1				1		X				
ADF 16-011					1		X				

DESCRIPTION OF SHIPMENT

11 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

✓ SAMPLER CONVEYED

_____ (SHIPPING DOCUMENT NUMBER)

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF CUSTODY
[signature] ☐ SEALED ☐ UNSEALED ☑	11/6/92	1335	[signature] ☐ SEALED ☐ UNSEALED	Analysis
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHANGE OF CUSTODY

7-EPA-9262(Revised 5/85)

ATTACHMENT 8

SPLIT SAMPLE ANALYSES

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

RECEIVED
DEC 03 1992
IOWA SECTION

DEC 2 1992

MEMORANDUM

SUBJECT: Transmittal of Analytical Data for Big Woods Auto Cedar Falls, Iowa (ADF16)

FROM: Robert B. Dona RB Dona
Environmental Engineer, QADE/EDSB/ENSV

TO: Patricia A. Frey
IOWA/RCRA/WSTM

THRU: Jeffrey A. Wandtke
Regional QA Officer, QADE/EDSB/ENSV

I have attached a copy of our Analysis Request Report for the RCRA closure oversight sampling performed by Metcalf and Eddy on November 4, 1992, at the Big Woods Auto facility in Cedar Falls, Iowa. The data qualifier code "K" indicates that the RECAP contract laboratory did not detect the compound at the concentration shown. The data from analysis of the laboratory quality control samples have not been included but are available at your request.

I am also including copies of the original field sheets and chain-of-custody record. If you have any questions, please call me at 551-5182.

Attachments

8-1

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
ENVIRONMENTAL SERVICES DIVISION
REGION 7
25 FUNSTON ROAD
KANSAS CITY, KANSAS 66115

DATE: NOV 25 1992

MEMORANDUM

SUBJECT: Data Transmittal for Activity #: ADF16
Site Description: Big Woods Auto

FROM: Andrea Jirka
Chief, Laboratory Branch, ENSV

TO: John Helvig
Chief, EMCM-ENSV

ATTN: Bob Dona

11-27-92 RBDona

Attached is the data transmittal for the above referenced site. The data contained in this transmittal have been approved by the Laboratory Branch. This should be considered a ____ Partial or X Complete data transmittal (completes transmittal of _____). The Project Leader should notify the Laboratory Branch within 14 days of any changes in the LAST analytical database. If you have any questions, comments, or data changes, please contact Dee Simmons at 551-5129.

Attachment

cc: Analytical Data File

8-2

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 001 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: ___ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/97 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/97 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth location 1
Black soil

SAMPLE COLLECTED BY : Jim Byrd

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 002 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/01/92 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/01/92 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Selected from 6-12 inch depth location 1

Black soil

SAMPLE COLLECTED BY : Jim Lynch

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 003 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:15 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:20 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: ___ OPERABLE UNIT: ___

Collected from 12-13 inch depth location 1

dark brown soil

SAMPLE COLLECTED BY : Jim Ayers

DRAFT FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 004 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __

LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT

LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:~~45~~ 30 EAST: ____

CASE/BATCH/SMO: ______/_/______ LAB: ___ END: 11/04/92 15:~~53~~ 35 NORTH: ____

STORET/AIRS NO: _______ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth location 3

Black soil

SAMPLE COLLECTED BY : Jim [signature]

8-6

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 005 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:45 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:53 NORTH: ____
STORET/AIRS NO: _____ 95 DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER: ___ OPERABLE UNIT: ___

Collected from 6-12 inch depth Location 3

Black soil

SAMPLE COLLECTED BY : _____

8-7

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 006 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __

LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT

LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:~~35~~ EAST: ____

CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:~~51~~ NORTH: ____

STORET/AIRS NO: _____ 35 DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 12-18 inch depth Location 3

black soil

SAMPLE COLLECTED BY : Jim Asbach

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 007 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO — REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 — PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO
LOCATION: CEDAR FALLS IA
CASE/BATCH/SMO: ______/_/______ LAB: ___
STORET/AIRS NO: ______

	DATE	TIME	FROM REF PT	
BEG:	11/04/92	15:45	EAST:	____
END:	11/04/92	15:53	NORTH:	____
			DOWN:	____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 0-6 inch depth Location 2

Black soil

SAMPLE COLLECTED BY : [signature]

8-9

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 008 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 15:45 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 15:57 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth. Location 2
Black soil.

SAMPLE COLLECTED BY : Jim Clynch

8-10

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII
ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 009 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: __ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/04/92 16:09 EAST: ____
CASE/BATCH/SMO: _____/_/_____ LAB: ___ END: 11/04/92 16:09 NORTH: ____
STORET/AIRS NO: _____ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth Location 4

Black soil

SAMPLE COLLECTED BY : Jim Czech

8-11

DRAFT

FIELD SHEET

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION VII

ENVIRONMENTAL SERVICES DIV. 25 FUNSTON RD. KANSAS CITY, KS 66115

FY: 93 ACTNO: ADF16 SAMNO: 010 QCC: _ MEDIA: SOIL PL: DONA, B.

ACTIVITY DES: BIG WOODS AUTO REF LATITUDE: __ __ __
LOCATION: CEDAR FALLS IA PROJECT NUM: A60 PT: LONGITUDE: ___ __ __

SAMPLE DES: BIG WOODS AUTO DATE TIME FROM REF PT
LOCATION: CEDAR FALLS IA BEG: 11/01/92 16:15 EAST: ____
CASE/BATCH/SMO: ______/_/______ LAB: ___ END: 11/01/92 16:20 NORTH: ____
STORET/AIRS NO: _______ DOWN: ____

ANALYSIS REQUESTED:

CONTAINER	PRESERVATIVE	MGP	NAME
2-40 ML VIALS	COOL (4 C)	SV26	TOLUENE, BY GC/MS
2-40 ML VIALS	COOL (4 C)	SV37	XYLENES, TOTAL, BY GC/MS

COMMENTS: FOR SUPERFUND ONLY: SUBSITE IDENTIFIER:___ OPERABLE UNIT:___

Collected from 6-12 inch depth Location 5

Black soil

SAMPLE COLLECTED BY : [signature]

8-12

CHAIN OF CUSTODY RECORD
ENVIRONMENTAL PROTECTION AGENCY REGION VII

ACTIVITY LEADER(Print)	NAME OF SURVEY OR ACTIVITY	DATE OF COLLECTION (DAY / MONTH / YEAR)
Pat Fritz	Big Wood Auto	04 / 11 / 92

CONTENTS OF SHIPMENT

SAMPLE NUMBER	TYPE OF CONTAINERS: CUBITAINER	BOTTLE	BOTTLE	BOTTLE	VOA SET (2 VIALS EA)	SAMPLED MEDIA: water	soil	sediment	dust	other	RECEIVING LABORATORY REMARKS/OTHER INFORM (condition of samples upon other sample numbers, et
	NUMBERS OF CONTAINERS PER SAMPLE NUMBER										
ADF 16 - 001	1				1		X				
ADF 16 - 002	1				1		X				
ADF 16 - 003	1				1		X				
ADF 16 - 004	1				1		X				
ADF 16 - 005	1				1		X				
ADF 16 - 006	1				1		X				
ADF 16 - 007	1				1		X				
ADF 16 - 008	1				1		X				
ADF 16 - 009	1				1		X				
ADF 16 - 010	1				1		X				
~~ADF 16 - 011~~					1		X				

DESCRIPTION OF SHIPMENT

11 PIECE(S) CONSISTING OF _____ BOX(ES)

1 ICE CHEST(S); OTHER _____

MODE OF SHIPMENT

_____ COMMERCIAL CARRIER: _____

_____ COURIER

✓ SAMPLER CONVEYED

(SHIPPING DOCUMENT NU

PERSONNEL CUSTODY RECORD

RELINQUISHED BY (SAMPLER)	DATE	TIME	RECEIVED BY	REASON FOR CHANGE OF
[signature] ☐ SEALED ☐ UNSEALED ✓	11/6/92	1335	[signature] ☐ SEALED ☐ UNSEALED ✓	[signature]
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOR CHAI
RELINQUISHED BY ☐ SEALED ☐ UNSEALED	DATE	TIME	RECEIVED BY ☐ SEALED ☐ UNSEALED	REASON FOI

7-EPA-9262(Revised 5/85)

8-13

ANALYSIS REQUEST REPORT — VALIDATED DATA

FOR ACTIVITY: ADF16

DONA, B. — 11/30/92 11:49:21 — ALL REAL SAMPLES AND FIELD Q.C.

* FINAL REPORT

FY: 93 ACTIVITY: ADF16 DESCRIPTION: BIG WOODS AUTO LOCATION: CEDAR FALLS IOWA

STATUS: ACTIVE TYPE: SAMPLING - IN HOUSE ANALYSIS PROJECT: A60

LABO DUE DATE IS 12/ 6/92. REPORT DUE DATE IS 12/25/92.

INSPECTION DATE: 11/ 4/92 ALL SAMPLES RECEIVED DATE: 11/06/92

ALL DATA APPROVED BY LABO DATE: 11/25/92 FINAL REPORT TRANSMITTED DATE: 00/00/00

EXPECTED LABO TURNAROUND TIME IS 30 DAYS EXPECTED REPORT TURNAROUND TIME IS 51 DAYS

ACTUAL LABO TURNAROUND TIME IS 19 DAYS ACTUAL REPORT TURNAROUND TIME IS 0 DAYS

SITE CODE: SITE:

SAMP. NO.	QCC	M	DESCRIPTION	SAMPLE # STATUS	CITY	STATE	AIRS/ STORET LOC NO	SECT	LAY-ER	BEG. DATE	BEG. TIME	END. DATE	END. TIME
001		S	LOCATION 1, 0-6 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:15	11/04/92	15:20
002		S	LOCATION 1,6-12 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:15	11/04/92	15:20
003		S	LOCATION 1, 12-18 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:15	11/04/92	15:20
004		S	LOCATION 3, 0-6 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:30	11/04/92	15:35
005		S	LOCATION 3, 6-12 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:30	11/04/92	15:35
006		S	LOCATION 3, 12-18 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:30	11/04/92	15:35
007		S	LOCATION 2, 0-6 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:45	11/04/92	15:53
008		S	LOCATION 2, 6-12 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	15:45	11/04/92	15:57
009		S	LOCATION 4, 6-12 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	16:00	11/04/92	16:00
010		S	LOCATION 5, 6-12 INCH DEPTH	1	CEDAR FALLS	IOWA				11/04/92	16:15	11/04/92	16:20

EXPLANATION OF CODES AND INFORMATION ON ANALYSIS REQUEST DETAIL REPORT

SAMPLE INFORMATION:

SAMP. NO. = SAMPLE IDENTIFICATION NUMBER (A 3-DIGIT NUMBER WHICH IN COMBINATION WITH THE ACTIVITY NUMBER AND QCC, PROVIDES AN UNIQUE NUMBER FOR EACH SAMPLE FOR IDENTIFICATION PURPOSES)

QCC = QUALITY CONTROL CODE (A ONE-LETTER CODE USED TO DESIGNATE SPECIFIC QC SAMPLES. THIS FIELD WILL BE BLANK FOR ALL NON-QC OR ACTUAL SAMPLES):
- A = TRUE VALUE FOR CALIBRATION STANDARD
- B = CONCENTRATION RESULTING FROM DUPLICATE LAB SPIKE
- C = MEASURED VALUE FOR CALIBRATION STANDARD
- D = MEASURED VALUE FOR FILED DUPLICATE
- F = MEASURED VALUE FOR FIELD BLANK
- G = MEASURED VALUE FOR METHOD STANDARD
- H = TRUE VALUE FOR METHOD STANDARD
- K = CONCENTRATION RESULTING FROM DUPLICATE FIELD SPIKE
- L = MEASURED VALUE FOR LAB DUPLICATE
- M = MEASURED VALUE FOR LAB BLANK
- N = MEASURED VALUE FOR DUPLICATE FIELD SPIKE
- P = MEASURED VALUE FOR PERFORMANCE STANDARD
- R = CONCENTRATION RESULTING FROM LAB SPIKE
- S = MEASURED VALUE FOR LAB SPIKE
- T = TRUE VALUE OF PERFORMANCE STANDARD
- W = MEASURED VALUE FOR DUPLICATE LAB SPIKE
- Y = MEASURED VALUE FOR FIELD SPIKE
- Z = CONCENTRATION RESULTING FROM FIELD SPIKE

M = MEDIA CODE (A ONE-LETTER CODE DESIGNATING THE MEDIA OF THE SAMPLE):
- A = AIR
- H = OTHER (DOES NOT FIT ANY OTHER CATEGORY)
- S = SOLID (SOIL, SEDIMENT, SLUDGE)
- T = TISSUE (PLANT & ANIMAL)
- W = WATER (GROUND WATER, SURFACE WATER, WASTE WATER, DRINKING WATER)

DESCRIPTION = A SHORT DESCRIPTION OF THE LOCATION WHERE SAMPLE WAS COLLECTED

AIRS/STORET LOC. NO. = THE SPECIFIC LOCATION IDENTIFICATION NUMBER FOR EITHER OF THESE NATIONAL DATABASE SYSTEMS, AS APPROPRIATE

DATE/TIME INFORMATION = SPECIFIC INFORMATION REGARDING WHEN THE SAMPLE WAS COLLECTED
- BEG. DATE = DATE SAMPLING WAS STARTED
- BEG. TIME = TIME SAMPLING WAS STARTED
- END DATE = DATE SAMPLING WAS COMPLETED
- END TIME = TIME SAMPLING WAS COMPLETED
- NOTE: A GRAB SAMPLE WILL CONTAIN ONLY BEG. DATE/TIME
  A TIMED COMPOSITE SAMPLE WILL CONTAIN BOTH BEG AND END DATE/TIME TO DESIGNATE DURATION OF SAMPLE COLLECTION

OTHER CODES:
- V = VALIDATED

ANALYTICAL RESULTS/MEASUREMENTS INFORMATION:

COMPOUND = MGP (MEDIA-GROUP-PARAMETER) CODE AND NAME OF THE MEASURED CONSTITUENT OR CHARACTERISTIC OF EACH SAMPLE

UNITS = SPECIFIC UNITS IN WHICH RESULTS ARE REPORTED:
- C = CENTIGRADE (CELSIUS) DEGREES
- CFS = CUBIC FEET PER SECOND
- GPM = GALLONS PER MINUTE
- IN = INCHES
- I.D. = SPECIES IDENTIFICATION
- KG = KILOGRAM
- L = LITER
- LB = POUNDS
- MG = MILLIGRAMS (1 X 10-3 GRAMS)
- MGD = MILLION GALLONS PER DAY
- MPH = MILES PER HOUR
- MV = MILLIVOLT
- M/F = MALE/FEMALE
- M2 = SQUARE METER
- M3 = CUBIC METER
- NA = NOT APPLICABLE
- NG = NANOGRAMS (1 X 10-9 GRAMS)
- NTU = NEPHELOMETRIC TURBIDITY UNITS
- PC/L = PICO (1 X 10-12) CURRIES PER LITER
- PG = PICOGRAMS (1 X 10-12 GRAMS)
- P/CM2 = PICOGRAMS PER SQUARE CENTIMETER
- SCM = STANDARD CUBIC METER (1 ATM, 25 C)
- SQ FT = SQUARE FEET
- SU = STANDARD UNITS (PH)
- UG = MICROGRAMS (1 X 10-6 GRAMS)
- UMHOS = MICROMHOS/CM (CONDUCTIVITY UNITS)
- U/CC2 = MICROGRAMS PER 100 SQUARE CENTIMETERS
- U/CM2 = MICROGRAMS PER SQUARE CENTIMETER
- 1000G = 1000 GALLONS
- +/- = POSITIVE/NEGATIVE
- # = NUMBER

DATA QUALIFIERS = SPECIFIC CODES USED IN CONJUNCTION WITH DATA VALUES TO PROVIDE ADDITIONAL INFORMATION ON THE REPORTED RESULTS, OR USED TO EXPLAIN THE ABSENCE OF A SPCIFIC VALUE:
- BLANK = IF FIELD IS BLANK, NO REMARKS OR QUALIFIERS ARE PERTINENT. FOR FINAL REPORTED DATA, THIS MEANS THAT THE VALUES HAVE BEEN REVIEWED AND FOUND TO BE ACCEPTABLE FOR USE.
- I = INVALID SAMPLE/DATA - VALUE NOT REPORTED
- J = DATA REPORTED BUT NOT VALID BY APPROVED QC PROCEDURES
- K = ACTUAL VALUE OF SAMPLE IS < VALUE REPORTED
- L = ACTUAL VALUE OF SAMPLE IS > VALUE REPORTED
- M = DETECTED BUT BELOW THE LEVEL OF REPORTED VALUE FOR ACCURATE QUANTIFICATION
- O = PARAMETER NOT ANALYZED
- U = ACTUAL VALUE OF SAMPLE IS < THE MEASUREMENT DETECTION LIMIT (REPORTED VALUE)

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 3-ADF16 VALIDATED DATA

COMPOUND	UNITS	001	002	003	004	005
SV26 TOLUENE, BY GC/MS	UG/KG	11 K	10 K	10 K	11 K	11 K
SV37 XYLENES, TOTAL, BY GC/MS	UG/KG	11 K	10 K	10 K	11 K	11 K
ZZ01 SAMPLE NUMBER	NA	001	002	003	004	005
ZZ02 ACTIVITY CODE	NA	ADF16	ADF16	ADF16	ADF16	ADF16

ANALYSIS REQUEST DETAIL REPORT ACTIVITY: 3-ADF16 VALIDATED DATA

COMPOUND	UNITS	006	007	008	009	010
SV26 TOLUENE, BY GC/MS	UG/KG	10 K	11 K	10 K	10 K	11 K
SV37 XYLENES, TOTAL, BY GC/MS	UG/KG	10 K	11 K	10 K	10 K	11 K
ZZ01 SAMPLE NUMBER	NA	006	007	008	009	010
ZZ02 ACTIVITY CODE	NA	ADF16	ADF16	ADF16	ADF16	ADF16

21-3

VALIDATED DATA

ACTIVITY ADF16 BIG WOODS AUTO

THE PROJECT LEADER SHOULD CIRCLE ONE - STORET, AIRS, OR ARCHIVE.

CIRCLE ONE: STORET AIRS (ARCHIVE)

FINAL DATA REPORT APPROVED BY PROJECT LEADER ON 11/30/92 11:49:21 BY Robert B. Dorn.

81-3

ATTACHMENT 9

SPLIT SAMPLE ANALYSES SUMMARY

EPA SPLIT SAMPLE ANALYSES SUMMARY[1,2]

Laboratory Sample Number	Sample Location	Sample Interval	Total Xylenes	Toluene
3 ADF 16 001	BW-1	0-6"	<11	<11
3 ADF 16 002	BW-1	6-12"	<10	<10
3 ADF 16 003	BW-1	12-18"	<10	<10
3 ADF 16 004	BW-3	0-6"	<11	<11
3 ADF 16 005	BW-3	6-12"	<11	<11
3 ADF 16 006	BW-3	12-18"	<10	<10
3 ADF 16 007	BW-2	0-6"	<11	<11
3 ADF 16 008	BW-2	6-12"	<10	<10
3 ADF 16 009	BW-4	6-12"	<10	<10
3 ADF 16 010	BW-5	6-12"	<11	<11

---

1 All results reported in ug/kg.

2 Target Cleanup Levels - Toluene 100 mg/kg; Xylene 1,000 mg/kg.